

12/13/04

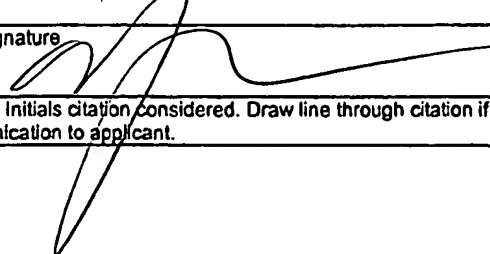
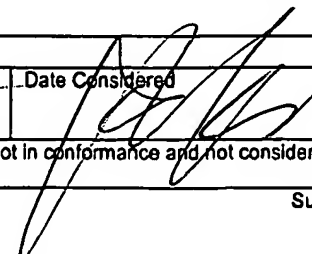
Sheet 1 of 1

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-311US1	Application No. 10/070,008
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Gilbert Wolrich et al.	
		Filing Date February 28, 2002	Group Art Unit

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>g</i>	AA	09/473,571	12/28/1999	Wolrich et al.			
<i>g</i>	AB	09/475,614	12/30/1999	Wolrich et al.			
	AC						
	AD						
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	AF						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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<i>g</i>	AH	WO 01/16697	03/2001	WIPO				
<i>g</i>	AI	WO 01/16698	03/2001	WIPO				
<i>g</i>	AJ	WO 01/16702	03/2001	WIPO				
<i>g</i>	AK	WO 01/16703	03/2001	WIPO				
<i>g</i>	AL	WO 01/16714	03/2001	WIPO				
<i>g</i>	AM	WO 01/16715	03/2001	WIPO				
<i>g</i>	AN	WO 01/16716	03/2001	WIPO				
<i>g</i>	AO	WO 01/16722	03/2001	WIPO				
<i>g</i>	AP	WO 01/16758	03/2001	WIPO				
<i>g</i>	AQ	WO 01/18646	03/2001	WIPO				
	AR							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>g</i>	AS	Paver et al., "Register Locking in Asynchronous Processor Computer Design: VLSI Processors," ICCD '92 Proceedings, IEEE 1992 International Conference, 1992, pp. 351-355.
<i>g</i>	AT	Waldspurger et al., "Register Relocation: Flexible Contents for Multithreading," Proceedings of the 20th Annual International Symposium on Computer Architecture, 1993, pp. 120-130.
	AU	

Examiner Signature 	Date Considered 
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

12/06/04

Title of Invention	BRANCH INSTRUCTION FOR PROCESSOR
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Application Number : 10/070008

Confirmation Number: 5753

First Named Applicant: Gilbert Wolrich

Attorney Docket Number: 10559-311US1



Art Unit:

Examiner:

Search string: (3373408 or 3478322 or 3792441 or 3913074 or 3940745 or 4130890 or 4392758 or 4400770 or 4514807 or 4523272 or 4724521 or 4745544 or 4777587 or 4866664 or 5073864 or 5140685 or 5142683 or 5155831 or 5155854 or 5168555 or 5173897 or 5255239 or 5263169 or 5347648 or 5357617 or 5367678 or 5390329 or 5392391 or 5392411 or 5392412 or 5404464 or 5404482 or 5428809 or 5432918 or 5442756 or 5448702 or 5450351 or 5452437 or 5459842 or 5463625 or 5467452 or 5481683 or 5487159 or 5517628 or 5517648 or 5542070 or 5542088 or 5544236 or 5550816 or 5557766 or 20020053017 or 20020056037 or 20030041228 or 20030145159 or 20030191866 or 20040039895 or 20040054880 or 20040071152 or 20040073728 or 20040073778 or 20040098496 or 20040109369 or 20040205747).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
h	1	3373408	1968-03-12	Ling			
h	2	3478322	1969-11-11	Evans			
h	3	3792441	1974-02-12	Wymore et al.			
h	4	3913074	1975-10-14	Homberg et al.			
h	5	3940745	1976-02-24	Sajeva			
h	6	4130890	1978-12-19	Adam			
h	7	4392758	1983-07-12	Bowles et al.			
h	8	4400770	1983-08-23	Chan et al.			
h	9	4514807	1985-04-30	Nogi			
h	10	4523272	1985-06-11	Fukunaga et al.			
h	11	4724521	1988-02-09	Carron et al.			
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h	14	4866664	1989-09-12	Burkhardt Jr. et al.			
h	15	5073864	1991-12-17	Methvin et al.			
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31	5404464	1995-04-04	Bennett			
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Note: Applicant is not required to submit a paper copy of cited US Published Applications

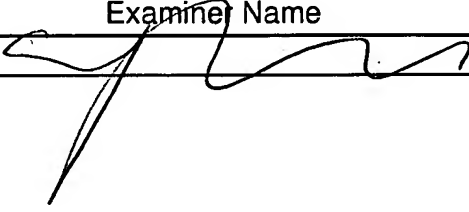
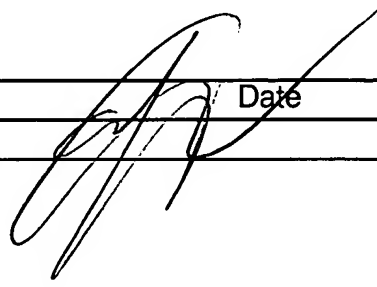
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2	2	20020056037	2002-05-09	Wolrich et al.			
3	3	20030041228	2003-02-27	Rosenbluth et al.			
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12/26/04

~	6	20040039895	2004-02-26	Wolrich et al.			
~	7	20040054880	2004-03-18	Bernstein et al.			
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~	9	20040073728	2004-04-15	Wolrich et al.			
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~	13	20040205747	2004-10-14	Bernstein et al.			

Signature

Examiner Name	Date
	

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

12/06/04

Title of Invention	BRANCH INSTRUCTION FOR PROCESSOR
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Application Number : 10/070008

Confirmation Number: 5753

First Named Applicant: Gilbert Wolrich

Attorney Docket Number: 10559-311US1

Art Unit:

Examiner:

Search string:



(5568617 or 5574922 or 5574939 or 5592622 or 5606676 or 5613071 or 5613136 or 5623489 or 5627829 or 5630130 or 5644623 or 5649157 or 5659722 or 5680641 or 5689566 or 5692167 or 5699537 or 5717898 or 5721870 or 5742587 or 5742782 or 5742822 or 5745913 or 5751987 or 5761507 or 5761522 or 5781774 or 5784649 or 5784712 or 5796413 or 5797043 or 5809235 or 5809530 or 5812839 or 5812868 or 5828746 or 5828863 or 5832215 or 5835755 or 5854922 or 5860158 or 5886992 or 5887134 or 5890208 or 5892979 or 5905876 or 5905889 or 5915123 or 5933627 or 5659687).pn

US Patent Documents

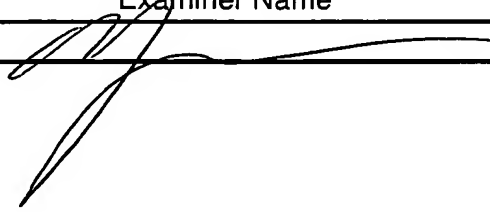
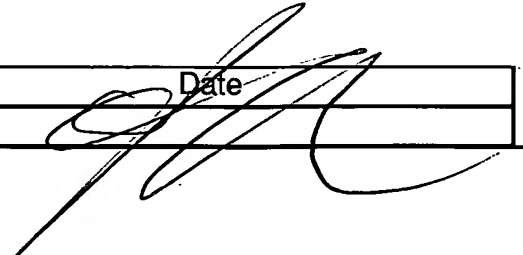
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
4	1	5568617	1996-10-22	Kametani			
✓	2	5574922	1996-11-12	James			
8	3	5574939	1996-11-12	Keckler et al.			
5	4	5592622	1997-01-07	Isfeld et al.			
✓	5	5606676	1997-02-25	Grochowski et al.			
2	6	5613071	1997-03-18	Rankin et al.			
4	7	5613136	1997-03-18	Casavant et al.			
4	8	5623489	1997-04-22	Cotton et al.			
✓	9	5627829	1997-05-06	Gleeson et al.			
2	10	5630130	1997-05-13	Perotto et al.			
1	11	5644623	1997-07-01	Gulledge			
2	12	5649157	1997-07-15	Williams			
6	13	5659722	1997-08-19	Blaner et al.			
✓	14	5680641	1997-10-21	Sidman			
✓	15	5689566	1997-11-18	Nguyen			
✓	16	5692167	1997-11-25	Grochowski et al.			
✓	17	5699537	1997-12-16	Sharangpani et al.			

12/06/24

L	18	5717898	1998-02-10	Kagan et al.			
h	19	5721870	1998-02-24	Matsumoto			
h	20	5742587	1998-04-21	Zornig et al.			
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h	34	5812839	1998-09-22	Hoyt et al.			
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h	44	5890208	1999-03-30	Kwon			
h	45	5892979	1999-04-06	Shiraki et al.			
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h	49	5933627	1999-08-03	Parady			
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Signature

Examiner Name	Date
	

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

02/06/04

Title of Invention

BRANCH INSTRUCTION FOR PROCESSOR

Application Number : 10/070008
Confirmation Number: 5753
First Named Applicant: Gilbert Wolrich
Attorney Docket Number: 10559-311US1



Art Unit:

Examiner:

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

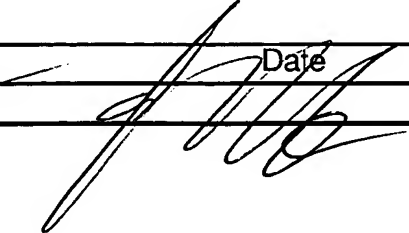
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h	7	6279113	2001-08-21	Vaidya			
h	8	6289011	2001-09-11	Seo et al.			
h	9	6298370	2001-10-02	Tang et al.			
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h	13	6347344	2002-02-12	Baker et al.			
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h	15	6356962	2002-03-12	Kasper et al.			
h	16	6373848	2002-04-16	Allison et al.			
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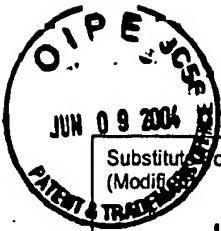
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✓	22	6427196	2002-07-30	Adiletta et al.			
✓	23	6430626	2002-08-06	Witkowski et al.			
✓	24	6434145	2002-08-13	Opsasnick et al.			
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✓	26	6532509	2003-03-11	Wolrich et al.			
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✓	29	6577542	2003-06-10	Wolrich et al.			
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✓	34	6629237	2003-09-30	Wolrich et al.			
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✓	36	6631462	2003-10-07	Wolrich et al.			
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✓	39	6668317	2003-12-23	Bernstein et al.			
✓	40	6681300	2004-01-20	Wolrich et al.			
✓	41	6694380	2004-02-17	Wolrich et al.			
✓	42	4023023	1977-05-10	Bourrez et al.			
✓	43	5113516	1992-05-12	Johnson			
✓	44	5363448	1994-11-08	Koopman Jr. et al.			
✓	45	5436626	1995-07-25	Fijiwara			
✓	46	5600812	1997-02-04	Park			
✓	47	5652583	1997-07-29	Kang			
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Signature

Examiner Name	Date
	



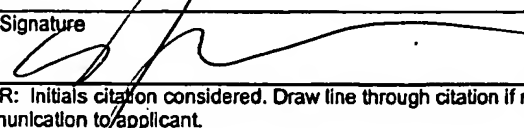
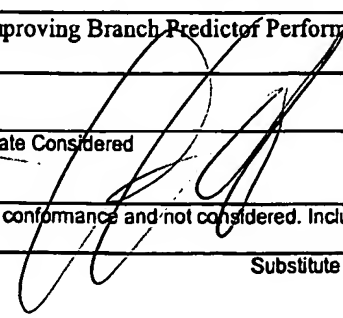
06/09/04

Sheet 1 of 2

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-311US1	Application No. 10/070,008
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Gilbert Wolrich et al.	
		Filing Date February 28, 2002	Group Art Unit

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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h	AA	WO 01/50679	07/12/2001	WIPO				
h	AB	WO 01/50247	07/12/2001	WIPO				
h	AC	WO 01/48619	07/05/2001	WIPO				
h	AD	WO 01/48606	07/05/2001	WIPO				
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h	AH	WO 01/16782	03/08/2001	WIPO				
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h	AP	EP 0 745 933	12/04/1996	Europe				
h	AQ	EP 0 633 678	01/11/1995	Europe				
h	AR	EP 0 464 715	01/08/1992	Europe				
h	AS	EP 0 379 709	08/01/1990	Europe				
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Other Documents (include Author, Title, Date, and Place of Publication)		
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h	AU	Agarwal et al., "April: A Processor Architecture for Multiprocessing," Proceedings of the 17 th Annual International Symposium on Computer Architecture, IEEE, pp. 104-114.
h	AV	Byrd et al., "Multithread Processor Architectures," IEEE Spectrum, Vol. 32, No. 8, New York, 1 August 1995, pp. 38-46.
h	AW	Chang et al., "A New Mechanism For Improving Branch Predictor Performance," IEEE, pp. 22-31 (1994).

Examiner Signature 	Date Considered 
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)



06/19/04

Sheet 2 of 2

Substitute Form PTO-1449 (Mandatory)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-311US1	Application No. 10/070,008
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Gilbert Wolrich et al.	
		Filing Date February 28, 2002	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
g	AX	Doyle et al., <i>Microsoft Press Computer Dictionary</i> , 2 nd ed., Microsoft Press, Redmond, Washington, USA, 1994, p. 326.
g	AY	Farkas et al., "The multicluster architecture: reducing cycle time through partitioning," IEEE, vol. 30, December 1997, pp. 149-159.
g	AZ	Fillo et al., "The M-Machine Multicomputer," IEEE Proceedings of MICRO-28, 1995, pp. 146-156.
g	AAA	Gomez et al., "Efficient Multithreaded User-Space Transport for Network Computing: Design and Test of the TRAP Protocol," <i>Journal of Parallel and Distributed Computing</i> , Academic Press, Duluth, Minnesota, USA, vol. 40, no. 1, 10 January 1997, pp. 103-117.
g	ABB	Haug et al., "Reconfigurable hardware as shared resource for parallel threads," IEEE Symposium on FPGAs for Custom Computing Machines, 1998.
g	ACC	Hauser et al., "Garp: a MIPS processor with a reconfigurable coprocessor," Proceedings of the 5 th Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1997.
g	ADD	Hennessy et al., "Complete Organization and Design: The Hardware/Software Interface," Morgan Kaufman Publishers, 1998, pp. 476-482.
g	AEE	Hyde, R., "Overview of Memory Management," <i>Byte</i> , vol. 13, no. 4, 1998, pp. 219-225.
g	AFF	Intel, "1A-64 Application Developer's Architecture Guide," Rev.1.0, May 1999, pp. 2-2, 4-29 to 4-31, 7-116 to 7-118 and c-21.
g	AGG	Keckler et al., "Exploiting fine grain thread level parallelism on the MIT multi-ALU processor," IEEE, June 1998.
g	AHH	Litch et al., "StrongARMing Portable Communications," IEEE Micro, 1998, pp. 48-55.
g	AII	Mendelson et al., "Design Alternatives of Multithreaded Architecture," <i>International Journal of Parallel Programming</i> , vol. 27, no. 3, Plenum Press, New York, USA, June 1999, pp. 161-193.
g	AJJ	Schmidt et al., "The Performance of Alternative Threading Architectures for Parallel Communication Subsystems," Internet Document, <i>Online!</i> , 13 November 1998.
g	AKK	Thistle et al., "A Processor Architecture for Horizon," IEEE, 1998, pp. 35-41.
g	ALL	Tremblay et al., "A Three Dimensional Register File for Superscalar Processors," IEEE Proceedings of the 28 th Annual Hawaii International Conference on System Sciences, 1995, pp. 191-201.
g	AMM	Trimberger et al., "A time-multiplexed FPGA," Proceedings of the 5 th Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1998.
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Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Sheet 1 of 1

Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-311US1	Application No.
	Applicant Gilbert Wolrich et al.		
	Filing Date February 28, 2002	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,812,839	09/22/1998	Hoyt et al.			
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	AF						
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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Chang et al., "Branch Classification: a New Mechanism fro Improving Branch Predictor Performance", ACM 1994, pgs 22 - 31
	AR	
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	AT	

Examiner Signature	Date Considered
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